

**SECRET**

22 November 1965

MEMORANDUM FOR: Assistant for Plans and Development Staff, NPIC

THROUGH: Chief, Information Processing Division, NPIC *AM*

SUBJECT: TID/TAB-107-65, 5 November 1965

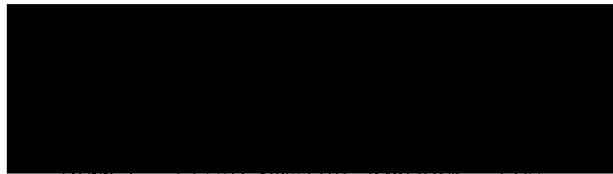
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1. The request by [REDACTED] for additional features on a proposed binary data block certainly merits full consideration. The need for a new high speed device is well known and as the missions become longer the time factor will become more acute. To solve the problem it is felt that, instead of slowing down the cyclic operation with a mechanical device the output should be put on magnetic tape instead of punched cards. The incorporation of magnetic tape will not only release the binary data block reader from the constraints of a slow output medium but also will speed up the processing of this data to such a degree that turn-around time will be minutes instead of hours.

2. Considering the request for speed and accuracy the option of putting a "machine side" readout in hard copy form would defeat the entire purpose of developing a high speed reader. The injection of the analyst at each reading in my opinion will not facilitate production but hinder it. The added cost of the binary to decimal conversion and the printer does not seem warranted.

3. If TAB sincerely desires Real Time analysis of the data I strongly suggest that instead of a remote device operating by itself that this binary data block reader be put on-line to the 494 which will be available at about the same time the proposed reader will become available. The analyst would then have the power and speed of a large computer to flag any item that is out of range or abnormal. It may be noted that the program to do this is already operational and only slight modification need be done to make this a reality.

4. My opinion is that to make a bigger and better harness for a horse does not speed up the operation. We should look for new concepts to assist us in the evolution of high speed mass data processing.



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